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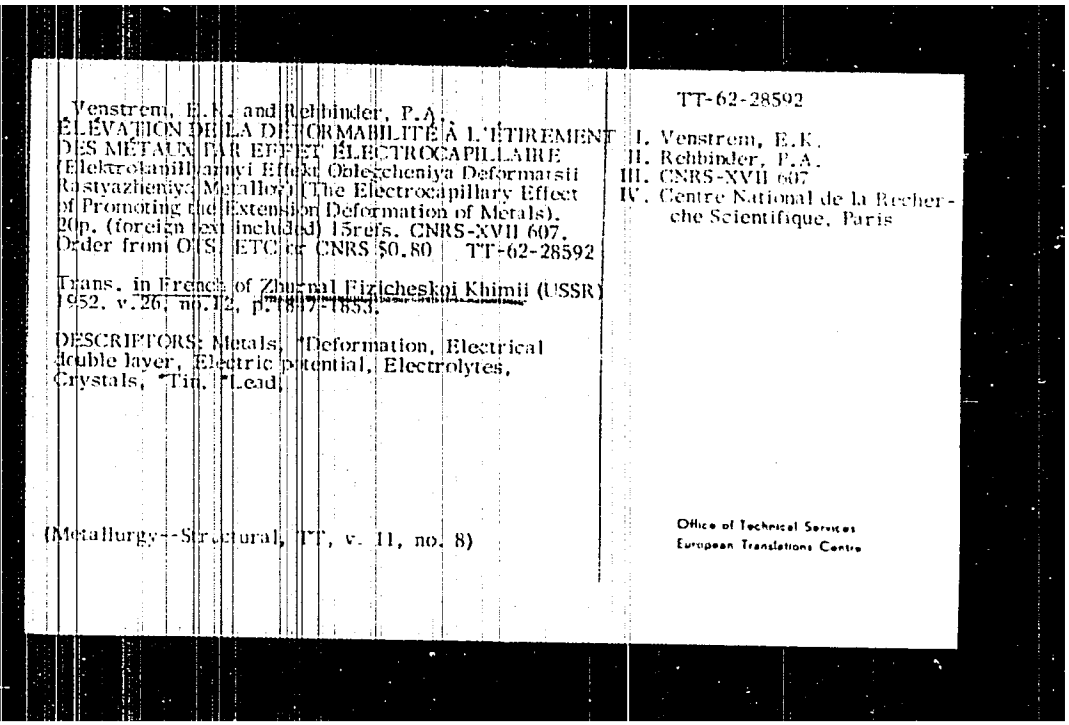

Venstrem, E.K. and Rehbinder, P.A.
ÉLÉVATION DE LA DÉFORMABILITÉ À L'ÉTIREMENT DES MÉTAUX PAR EFFET ÉLECTROCAPILLAIRE (Elektrokapillyarnyi Effekt Oblegcheniya Deformarsti Rastyazheniya Metallov) (The Electrocapillary Effect of Promoting the Extension Deformation of Metals). 20p. (foreign text included) 15refs. CNRS-XVII 607. Order from OTS, ETC or CNRS $0.80 TT-62-28592

Trans. in French of Zhurnal Fizicheskoi Khimii (USSR) 1952, v.26, no.12, p.1847-1853.

DESCRIPTORS: Metals, *Deformation, Electrical double layer, Electric potential, Electrolytes, Crystals, *Tin, *Lead.

(Metallurgy--Structural, TT, v. 11, no. 8)

TT-62-28592

I. Venstrem, E.K.
II. Rehbinder, P.A.
III. CNRS-XVII 607
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

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S-5125 (NY-2538)

Ideal Types of Equilibrium Diagrams for Liquid and Crystalline Phases, by V. M. Kravchenko, 28 pp.

RUSSIAN, per, Zhur Kiz Khim, Vol XXVII, No 1, 1953, pp 6-25.

JPRS L-778-N

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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Crystalline Structure of Thiocyanates: (8)
Crystalline Structure of Rhodium Hexathiocyanate,
by Z. V. Zvonkova.

RUSSIAN, per. Zhur Fiz Khim, Vol XXVII, No 1.
1953, pp 100-105.

OTS 60-23623
DSIR LLD RTS 1431

Sci - Chem

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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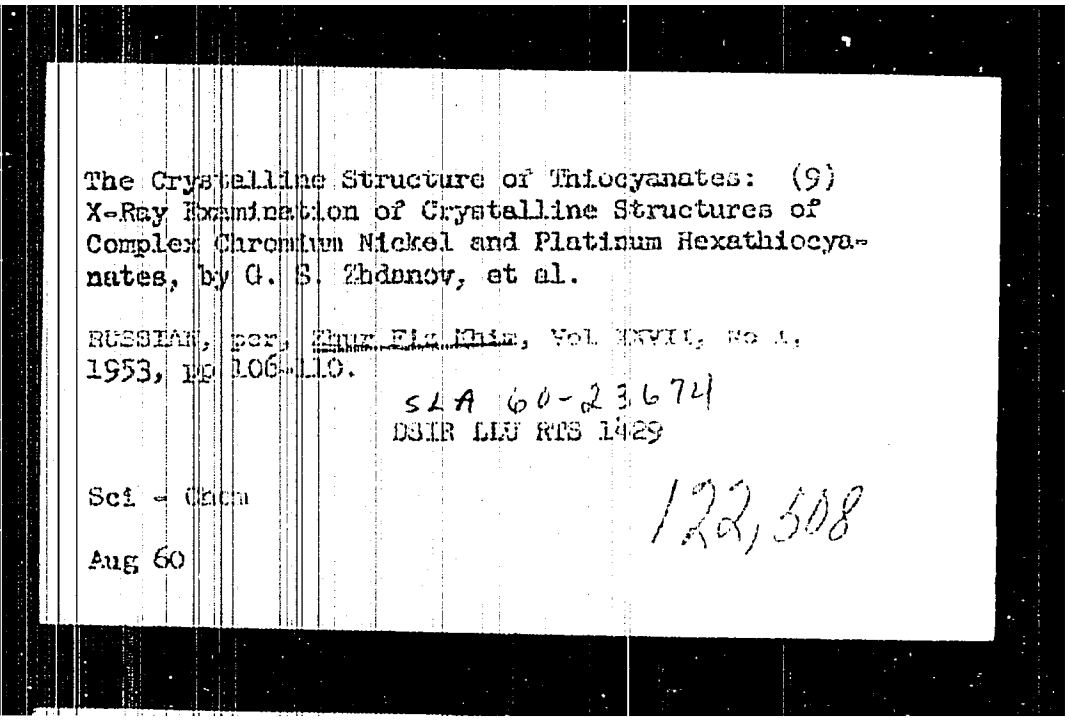

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SLA 60-23674
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Sci - Chem

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The Kinetics of Transformation of the Polymorphous Modifications of Ammonium Nitrate. 4. The Transformation of NH_4NO_3(III) $\rightleftarrows$ NH_4NO_3(II)., by B. V. Erofeyev, H. I. Mitzkevich, 9 pp.

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Sci - Physics

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y V. A. Roiter, et al.

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DSIR LLU M.1821
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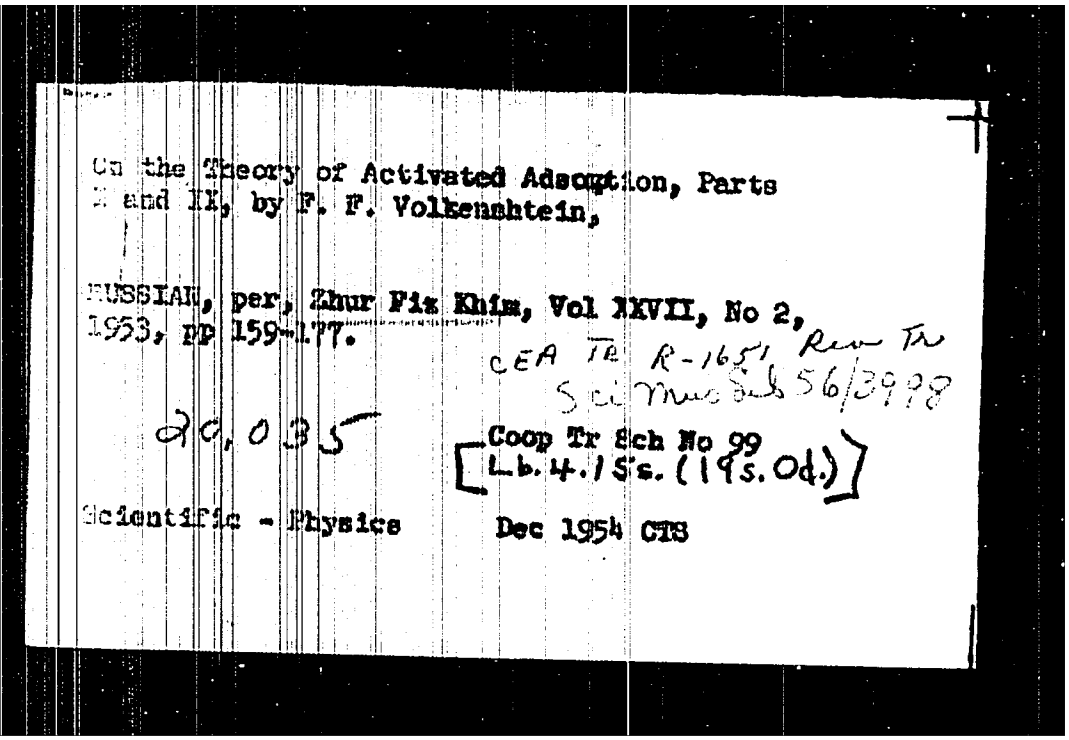

On the Theory of Activated Adsorption, Parts I and II, by F. F. Volkenshtein,

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CEA Tr R-165, Rev Tr Sci Mus Sub 56/3998

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[Coop Tr Sch No 99 Lb. 4.1 Ss. (19s. 0d.)]

Scientific - Physics Dec 1954 CTS

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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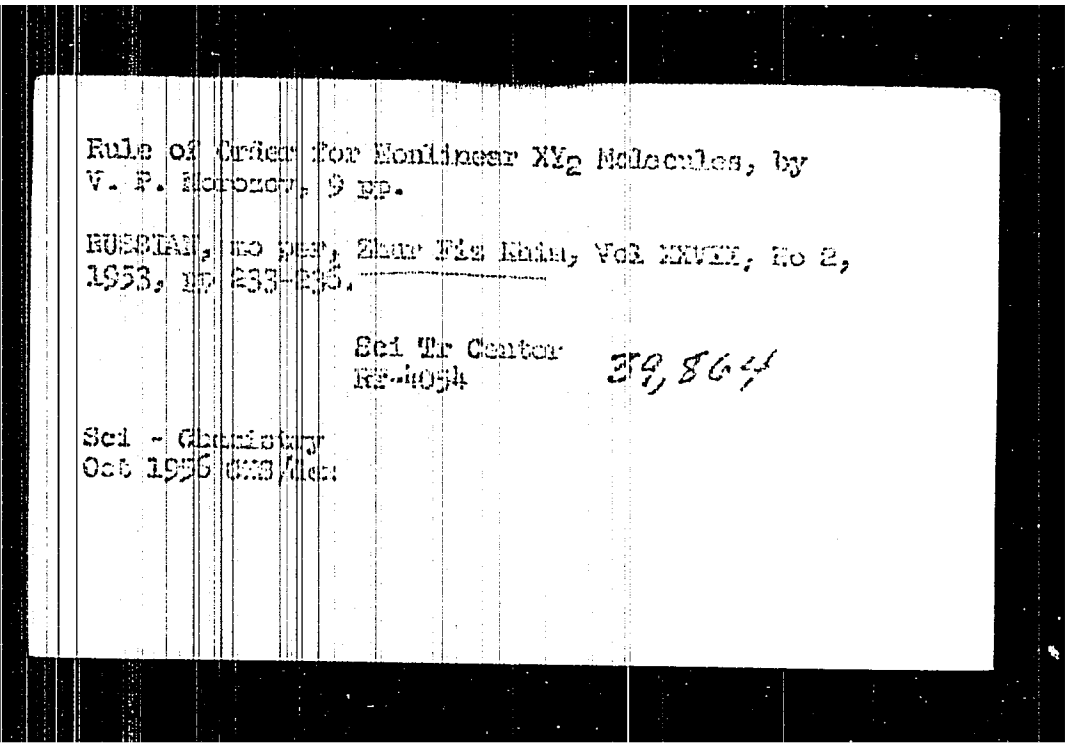

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KF-4054

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Distribution of Direct-Current Electrical Field in Electrolyzers: Graphical Method of Field Construction, by G. V. Fomblom, 25 pp.

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OTS TT-64-11141

Sci Trans Center
RT-2286

Scientific - Electricity (Electro-Chemistry)

Sep 55 CTS/DFX

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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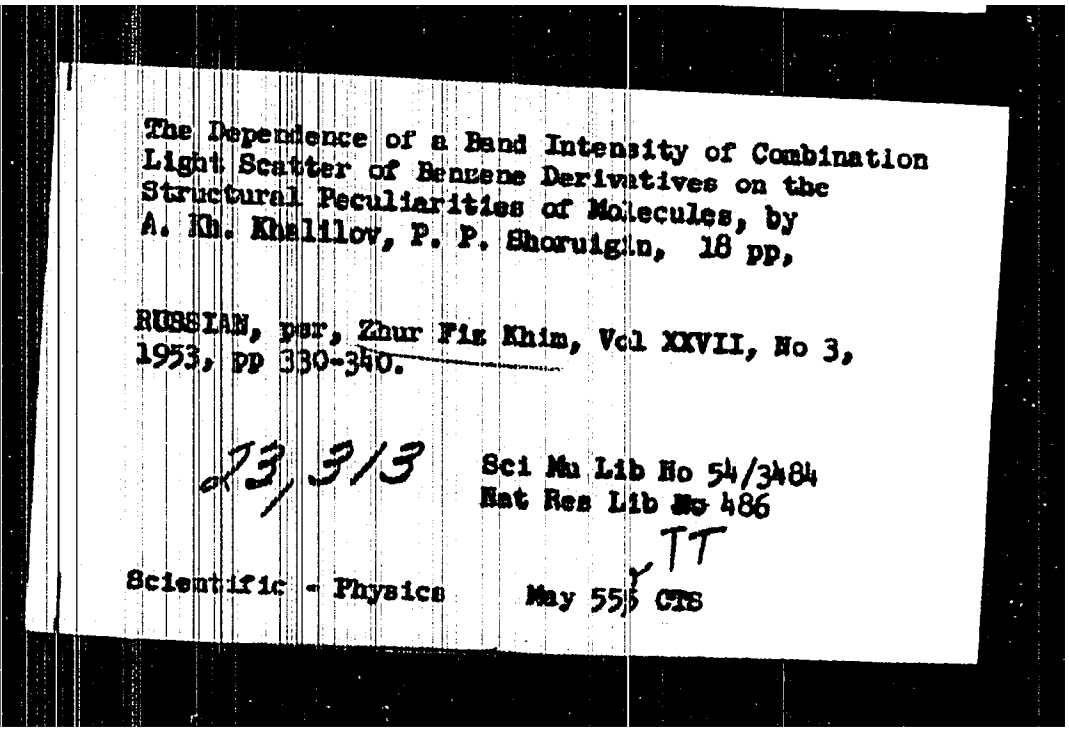

The Dependence of a Band Intensity of Combination Light Scatter of Benzene Derivatives on the Structural Peculiarities of Molecules, by A. Kh. Khalilov, P. P. Shorygin, 18 pp,

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~~73, 3/3~~ Sci Mu Lib No 54/3484
Nat Res Lib No 486

TT

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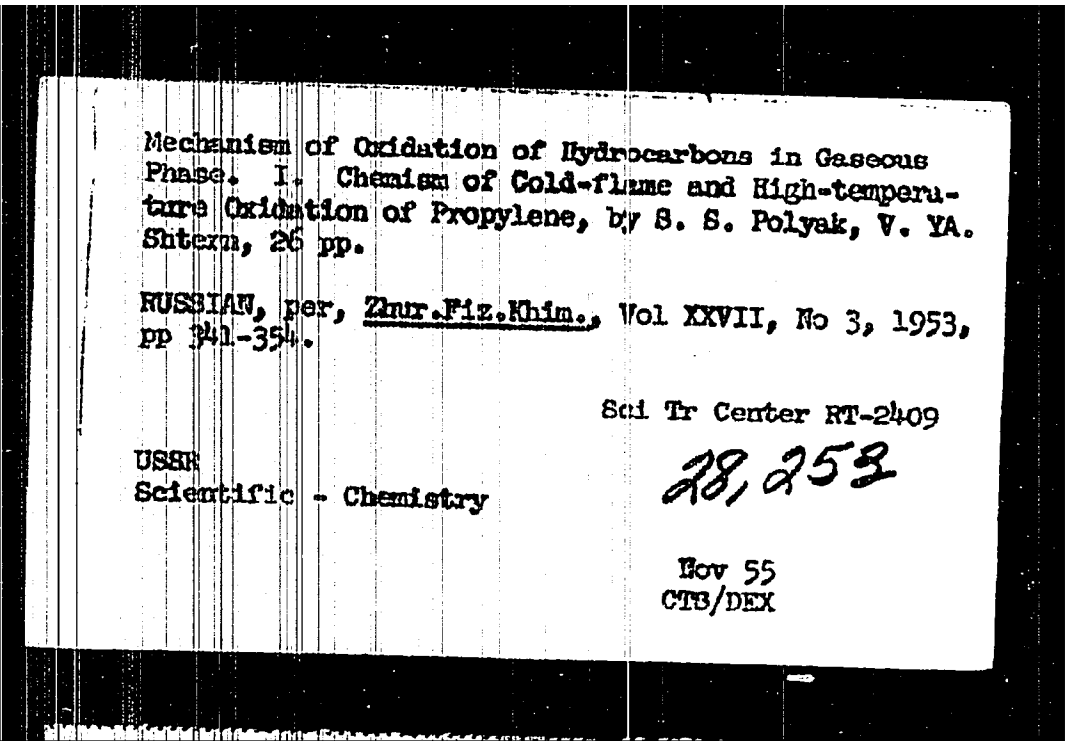

Mechanism of Oxidation of Hydrocarbons in Gaseous Phase. I. Chemism of Cold-flame and High-temperature Oxidation of Propylene, by S. S. Polyak, V. YA. Shtern, 26 pp.

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ATS-05Q72R

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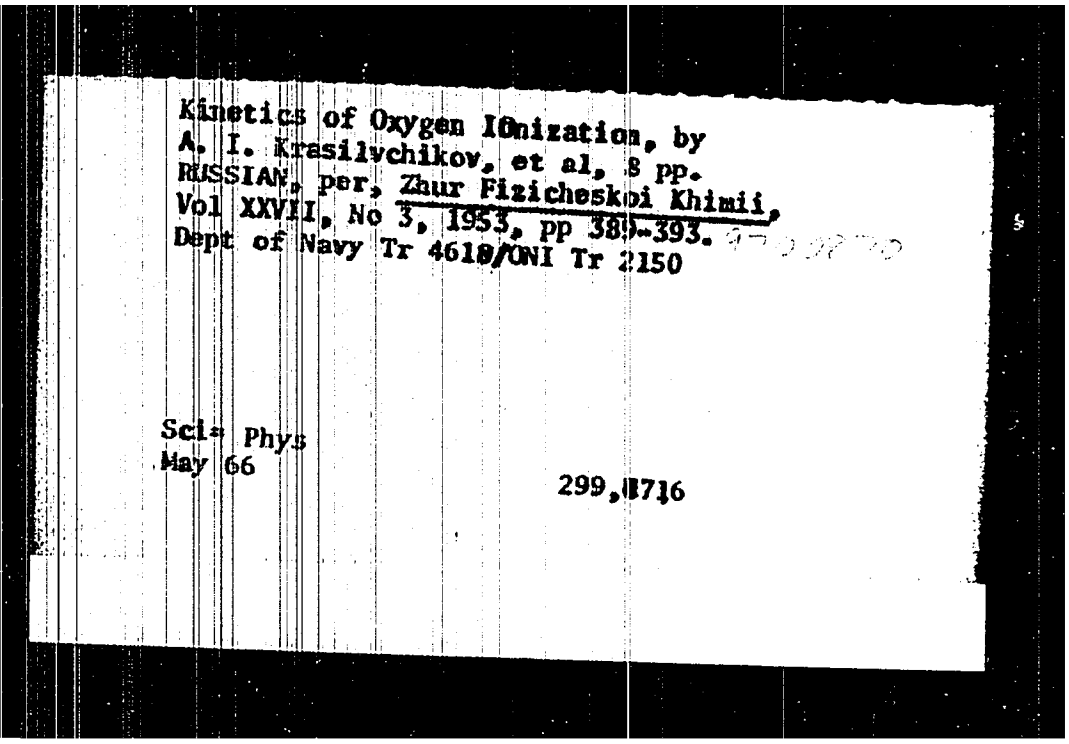

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A. I. Krasilvchikov, et al, 8 pp.
RUSSIAN, per, Zhur Fizicheskoi Khimii,
Vol XXVII, No 3, 1953, pp 389-393.
Dept of Navy Tr 4618/ONI Tr 2150

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Study of the Electrodeposition (Electrocrystallization) of Metals in an Ultrasonic Field, by S. M. Kochergin and N. N. Terpilovskiy, UNCLASSIFIED

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Brutcher Tr 3267

Scientific - Minerals/Metals

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Price $3.90

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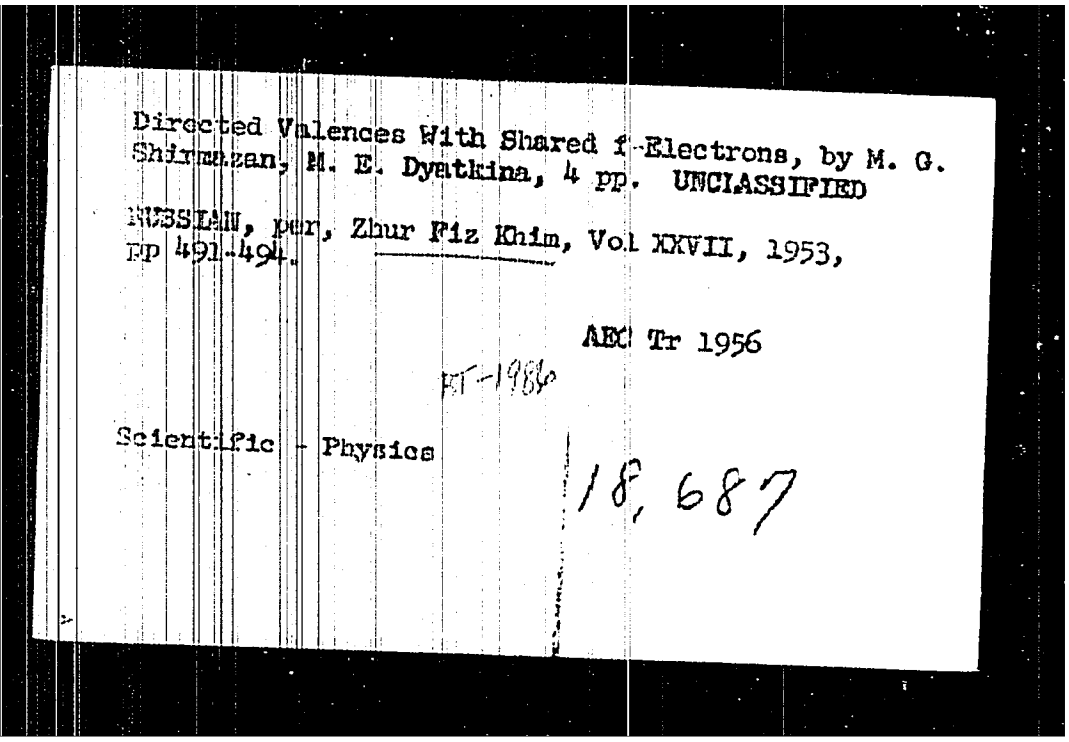

Directed Valences With Shared f-Electrons, by M. G. Shirmazan, M. E. Dyatkina, 4 pp. UNCLASSIFIED

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AEC Tr 1956

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Scientific - Physics

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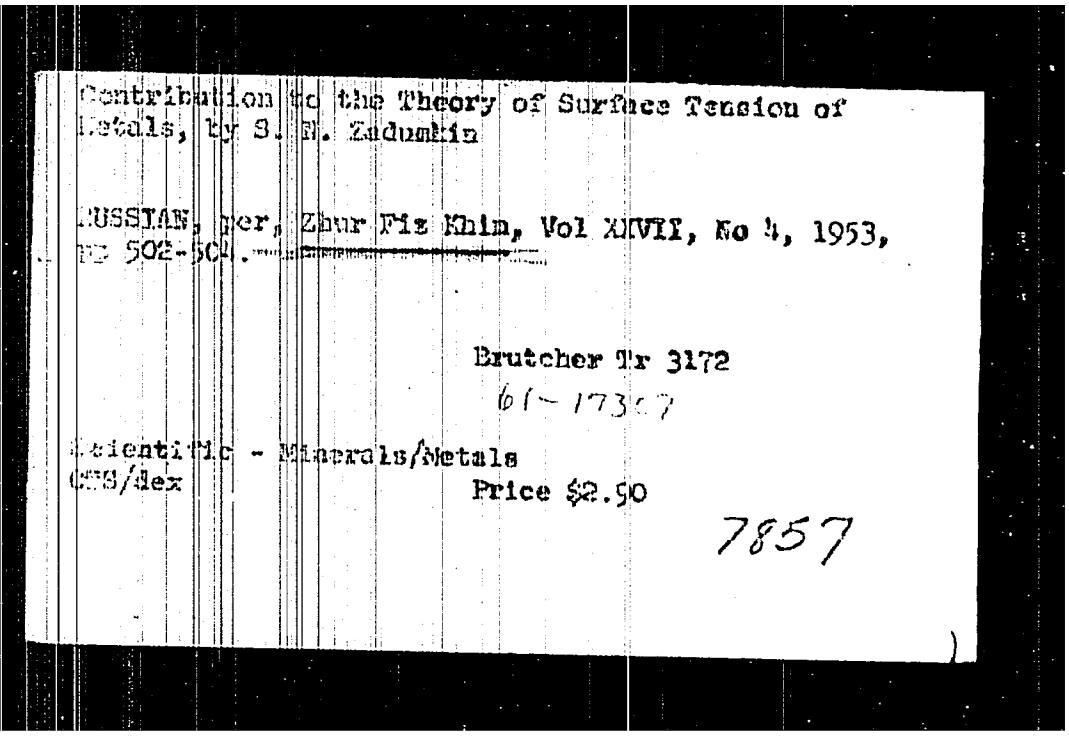

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Brutcher Tr 3172
61-17307

Scientific - Minerals/Metals
CFS/dex

Price $2.50

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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Low Temperature Investigations of the Structure of Aromatic Compounds. I. Anisotropy of the Thermal Expansion of Naphthalene, by V. M. Kozhin, A. I. Kitaygorodskiy.

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Polarography and Thermodynamics. II. Solubility and Thermodynamical Properties of Barium Selenate, by N. M. Selivanova, A. F. Kapustinskiy, 11 pp.
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AEC-ANL-Tr-23

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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Adiabatic Calorimeter for Measuring Heat Capacity of Solutions. Investigation of Salts of CO NiBe , and Mg , by A. F. Kapustinskiy, .B. M. Yakushevskiy, S. I. Drakin, 10 pp.

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SLA R 2831

Sci

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Mechanism of the Oxidation of Hydrocarbons in the Gaseous Phase. Part II. Degenerate and Branching Character of the Oxidation of Propylene, by S. S. Polyak, V. Ya. Shtern, 14 pp.

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RT-2285 28,941

Scientific - Chemistry Nov 55 CTS/DEX

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A Study of the Kinetics and Mechanism of the Polymerization of Vinyl Acetate, by M. V. Polyakov, et al, 13 pp.

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SIA Tr R-109

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Sci - Chem
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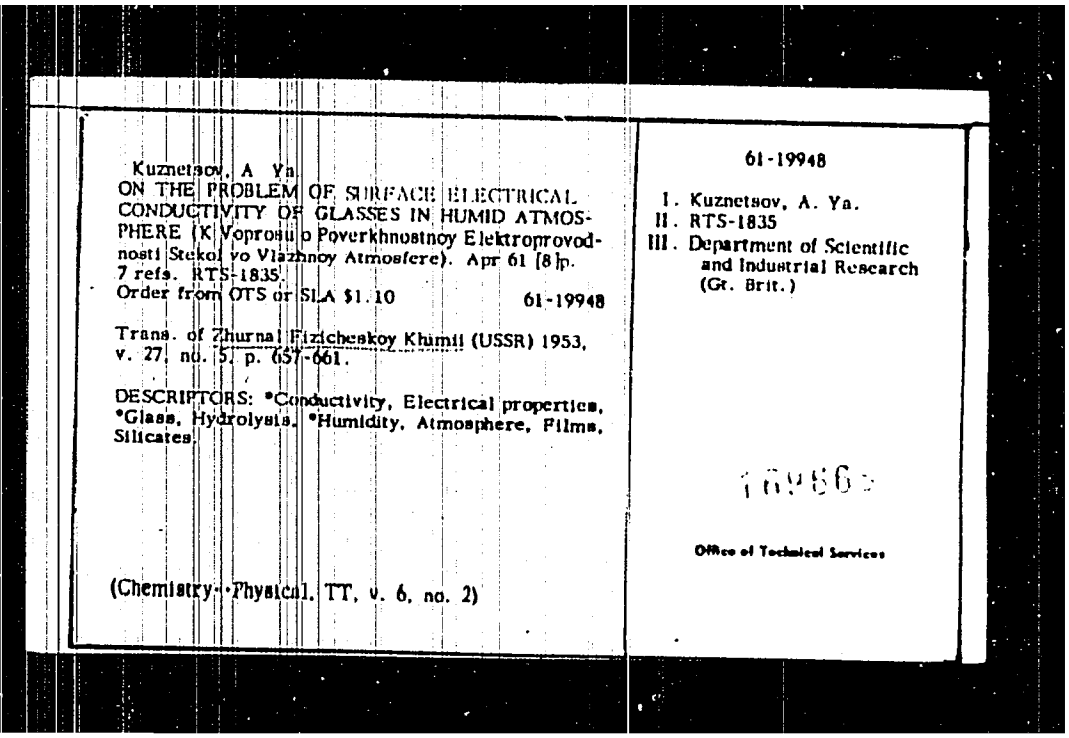

Kuznetsov, A Ya.
ON THE PROBLEM OF SURFACE ELECTRICAL CONDUCTIVITY OF GLASSES IN HUMID ATMOSPHERE (K Voprosu o Poverkhnostnoy Elektroprovodnosti Stekol vo Vlazhnoy Atmosfere). Apr 61 [8]p. 7 refs. RTS-1835.
Order from OTS or SLA $1.10 61-19948

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1953, v. 27, no. 5, p. 657-661.

DESCRIPTORS: *Conductivity, Electrical properties, *Glass, Hydrolysis, *Humidity, Atmosphere, Films, Silicates.

(Chemistry--Physical, TT, v. 6, no. 2)

61-19948

I. Kuznetsov, A. Ya.
II. RTS-1835
III. Department of Scientific and Industrial Research (Gr. Brit.)

19486

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(FDD 25309)

Kinetics of the Reaction of Calcium With Nitrogen, by V. A. Shushunov, Yu. N. Baryshnikov, 20 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVII, No 5, Moscow, 1953, pp 703-712

CIA/FDD/U-7194

USSR
Soi - Chemistry, physical

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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Heterodynamism of Silicate Glasses by Tarasov and Sovitskaya.

RUSSIAN, per Zhurnal Fizicheskoi Khimii, Vol XXVII, 1953, pp 744-752.

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Oct. 62

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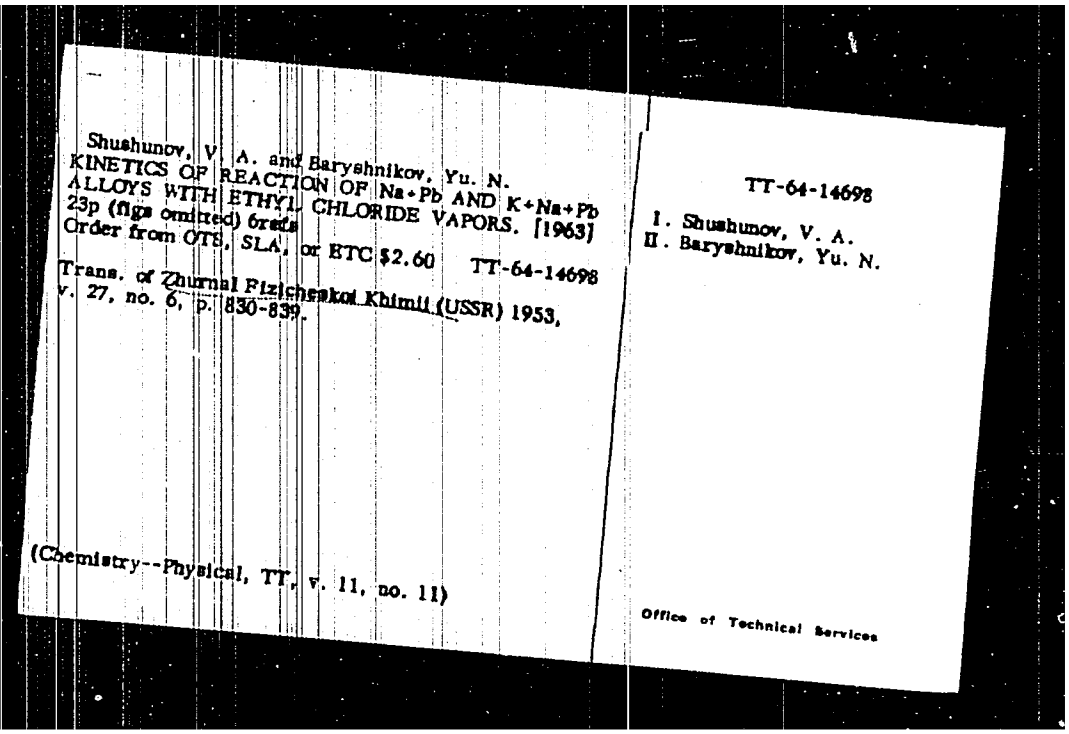

Shushunov, V. A. and Baryshnikov, Yu. N.
KINETICS OF REACTION OF Na+Pb AND K+Na+Pb ALLOYS WITH ETHYL CHLORIDE VAPORS. [1963]
23p (figs omitted) 6refs
Order from OTS, SLA, or BTC $2.60 TT-64-14698
Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1953, v. 27, no. 6, p. 830-839.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-64-14698
I. Shushunov, V. A.
II. Baryshnikov, Yu. N.

Office of Technical Services

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Investigation of the Mechanism of Ripening of Photographic Emulsions II. The Interrelation Between Light Sensitivity, Fog Growth and the Formation of Silver During Ripening, by A. A. Mikhaylova, I. M. Ratner, A. A. Titov, K. V. Chibisov, 22 pp.

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CIA/FDD X-2210

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Sci - Physics
Nov 1956 CIS/dmx

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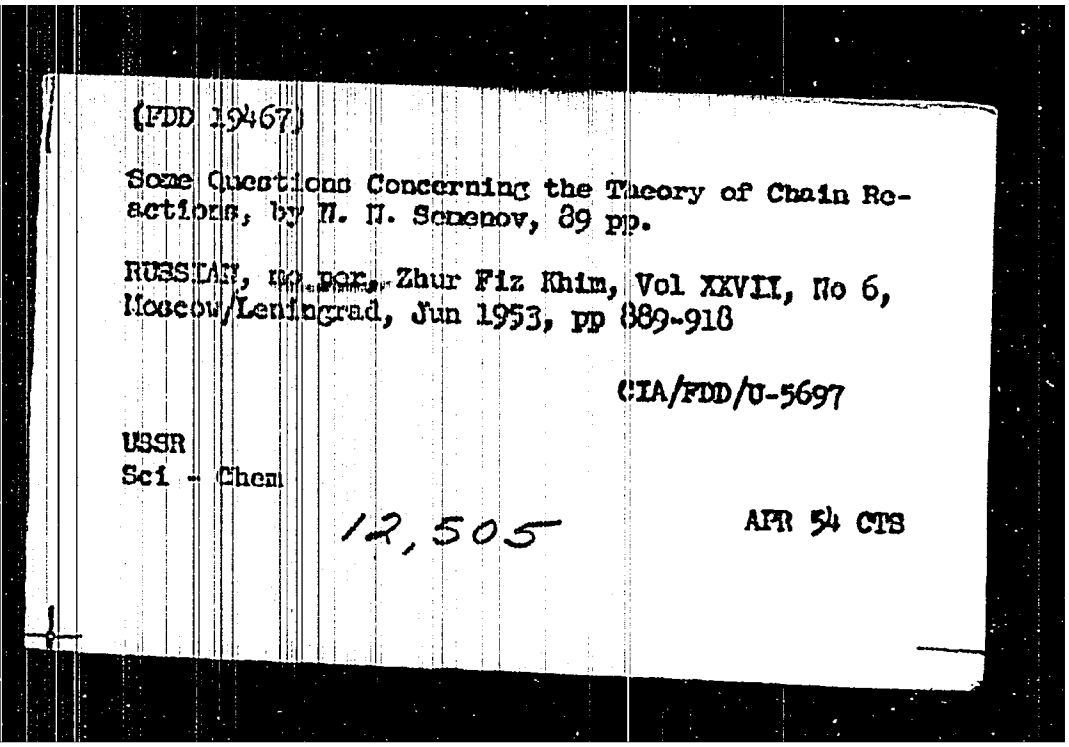

(FDD 1947)

Some Questions Concerning the Theory of Chain Reactions, by N. N. Semenov, 89 pp.

RUSSIAN, mp. pgr., Zhur Fiz Khim, Vol XXVII, No 6, Moscow/Leningrad, Jun 1953, pp 889-918

CIA/FDD/U-5697

USSR
Sci - Chem

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APR 54 CTS

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Electrical Properties of Solid Solutions in the ZrO_2-MgO and ZrO_2-CaO Systems, by A. M. Avgustinik, E. S. Antselevich, UNCLASSIFIED.

RUSSIAN

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Brutcher Tr No 3367

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Scientific - K Min/Metals

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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Heat Capacities of Individual Ions in Aqueous Solutions at Infinite Dilution, by K. P. Mishchenko and A. M. Ponomareva, 12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVI, 1953, pp 998-1006.

SLA R-2277

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Aug 58

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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Kinetics and Mechanism of Propane Decomposition in the Presence of Isobutylene and Propylene as Inhibitors, by A. D. Stepukhovich, E. S. Shver,

RUSSIAN, mo per, Zhur Fiz Khim, Vol XXVII, No 7, 1953, pp 1013-1024.

Natl Res Lib TT. 520

Sci Mus Lib

Scientific - Chemistry
Dec 55 CFS/DEX

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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The Relation Between the Condition of the Crystal Lattice of a Catalyst and Its Activity, by P. F. Ipatev, 8 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVII, No 8, 1953, pp 1133-1136.

Sci Tr Ctr RT-3487

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Scientific - Chemistry

May 56 CMS/dex

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Rozental', K. I. and Veselovskii, V. I.
STUDY OF THE MECHANISM AND THE KINETICS OF THE REACTION OF ELECTROCHEMICAL OXIDATION BY THE METHOD OF ANODIC POLAROGRAPHY ON THE PLATINUM ELECTRODE. [1962] 13p. (11 figs. omitted) 10 refs.
Order from OTS or SLA $1.60 62-16539

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1953, v. 27, no. 8, p. 1163-1171.

DESCRIPTORS: *Electrochemistry, *Platinum electrodes, Oxidation, *Polarographic analysis, Reaction kinetics.

There is developed a new method for taking anodic polarograms on the rotating platinum microelectrode which enables its employment for analytical purposes and for studying the mechanism of complicated
(Chemistry: Physical, TT, v. 3, no. 10) (over)

62-16539

I. Rozental', K. I.
II. Veselovskii, V. I.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

The Effect of the Calcining Temperature on the Amount of Surface and Water Content of Aluminium and Magnesium Oxides, by G. K. Boreskov, V. A. Dzis'ko, M. S. Borisov 8 pp.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XXVII, No 8, 1953, pp 1176-1180.

36,097
Sci Tr Center RT-3657

Scientific - Chemistry

Jun 56/dex

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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An Investigation of the Mechanical Properties of Crystalline Polymers. II. Polyethlenes, by V.A. Kargin, T. I. Sogolova, 15 pp.

RUSSIAN, Per, Zhur Fiz Khim, Vol XXVII, No 8, 1953, pp1208-1212

SLA R-2775

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Jul 59

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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The Investigation of the Mechanical Properties of Crystalline Polymers. XIII. Copolymers of Vinyl Chloride with Vinylidene Chloride and Gutta-Percha, by V. A. Kargin, T. I. Sogolova.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVII, No 8, 1953, pp 1213-1216.

T.I.L. T. 4525

Sci - Chemistry, Rubber 35, 716

Jun 1956

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Electronic Investigation of Crystalline Polymers. I. Linear Polymers, by V. A. Kargin, G. S. Markova.

RUSSIAN, no per, Zhur Fiz.Khim, Vol XXVII, No 8, 1953, 1236-1240.

T.I.L. T. 4526

35,711

Sci - Chemistry

Jun 1956

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Thermodynamic Criteria for Kinetic Equations of Electrochemical Reactions, by S. V. Gorbachev.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, No 9, 1953, pp 1362-1369.

Def Sci Info Sv
DRB T.157.R.

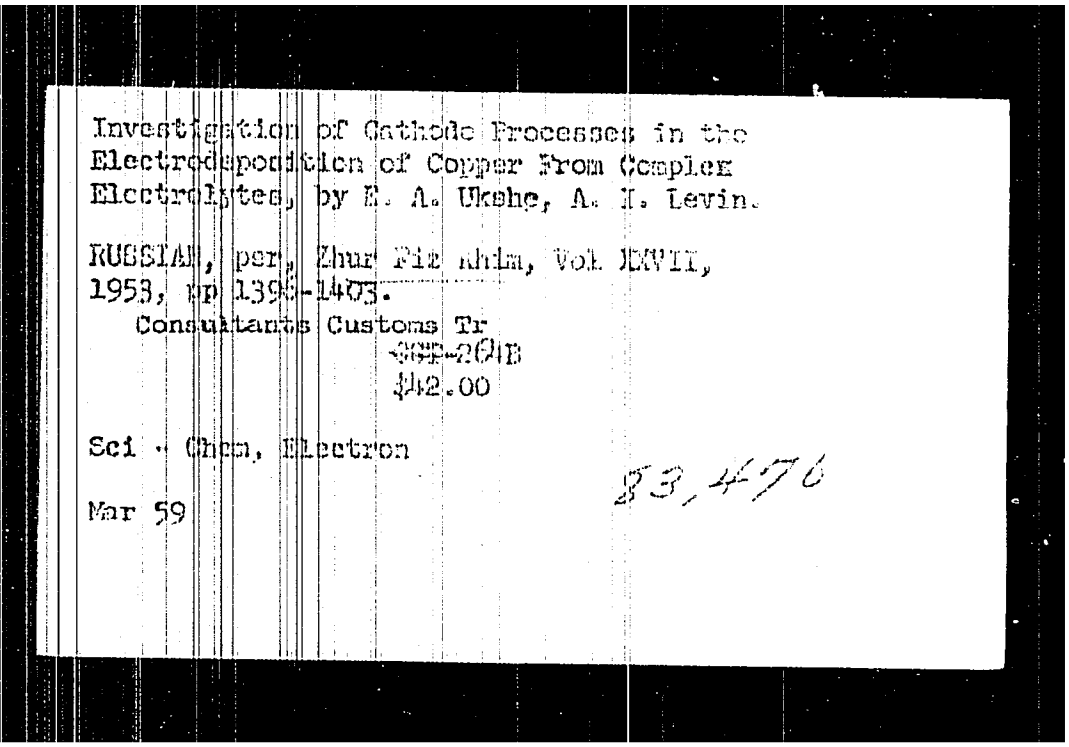
Scientific - Physics

Feb 55 CTS/DEK

21, 184

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0



Investigation of Cathode Processes in the Electrodeposition of Copper From Complex Electrolytes, by E. A. Ukshe, A. I. Levin.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, 1953, pp 1393-1403.

Consultants Customs Tr

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$2.00

Sci - Chem, Electron

53,476

Mar 59

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

The Question of Three Auto-Ignition Limits in Fuel Mixtures, 12 pp, 1 illus.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, No 9, 1953, pp 1420-1426
Encl to IR-1183-57.

AID/Feb 57

50,384

USSR
Physics

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

On New Experimental Confirmations of Our Theory of Heat Capacity of Chain and Stratified Structures, by B. B. Tarasov.

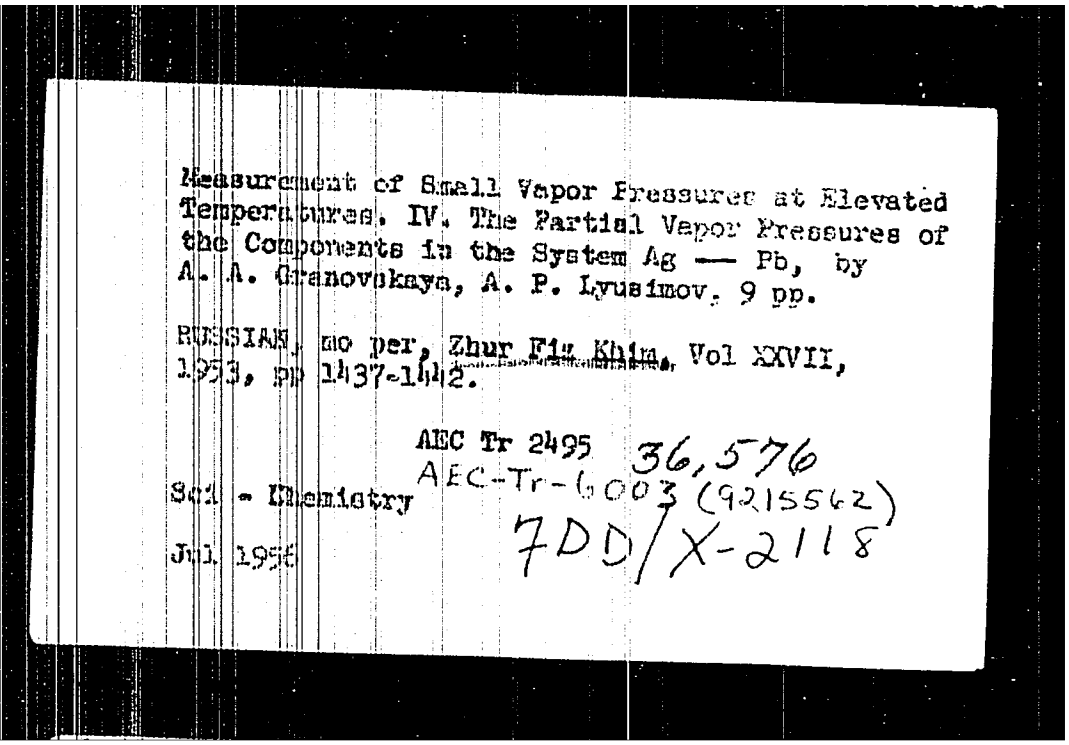
RUSSIAN, per, Zhur Fiz Khim, No 9, 1953, pp 1430-1436.

NLL(LOAN)Ref: 5828.4 1963 (5443)

Sci-Chem
April 64

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0



Measurement of Small Vapor Pressures at Elevated Temperatures. IV. The Partial Vapor Pressures of the Components in the System Ag — Pb, by A. A. Granovskaya, A. P. Lyusimov. 9 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVII, 1953, pp 1437-1442.

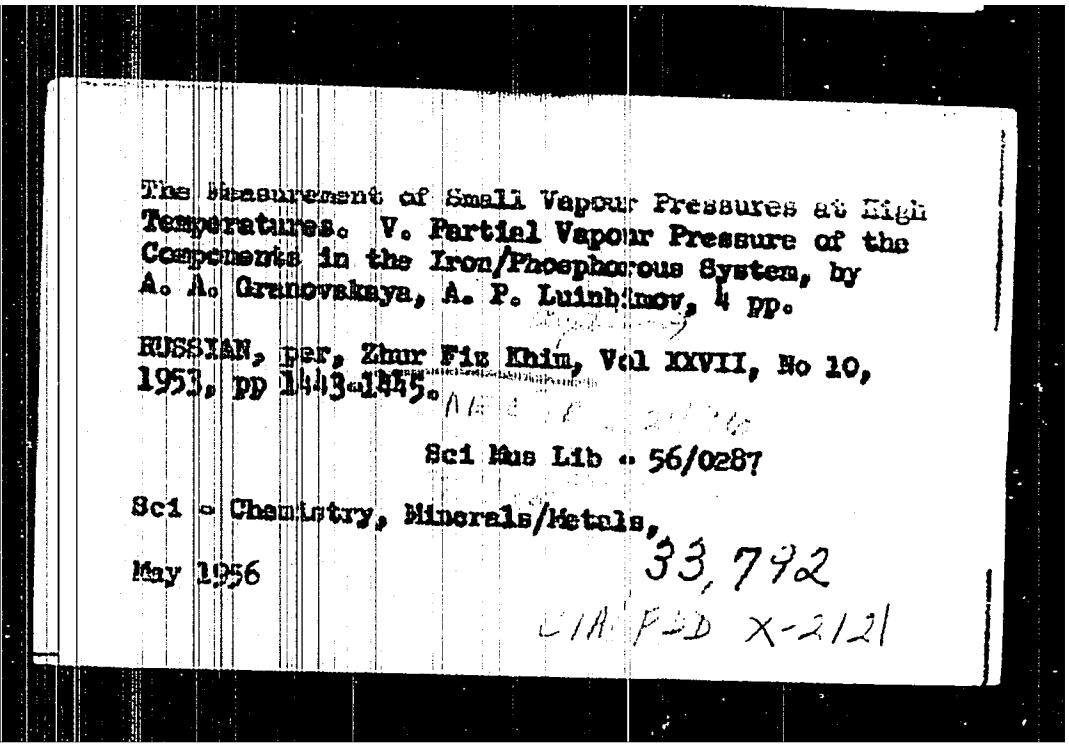
AEC Tr 2495 36,576
AEC-Tr-6003 (9215562)
7DD/X-2118

Sci - Chemistry

Jul 1956

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0



The Measurement of Small Vapour Pressures at High Temperatures. V. Partial Vapour Pressure of the Components in the Iron/Phosphorous System, by A. A. Granovskaya, A. P. Luinbimov, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, No 10, 1953, pp 1443-1445.

Sci Mus Lib - 56/0287

Sci - Chemistry, Minerals/Metals,

May 1956

33,742

CIA FSD X-2121

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Some Rules for Plotting Phase S Diagrams of Binary Systems, by S. D. Gromakov, L. M. Gromakova, 15 pp.

RUSSIAN, Per, Zhur Fiz Khim, Vol XXVII, 1953, pp 1545-1555.

AEC Tr-4289

Sci - Chem, Phys
21 Feb 61

140 947

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Investigation of the Inflammability Conditions of Gas Mixtures. Part XXIII. Oxidation of Ethane, by M. I. Gerber, M. B. Neiman.

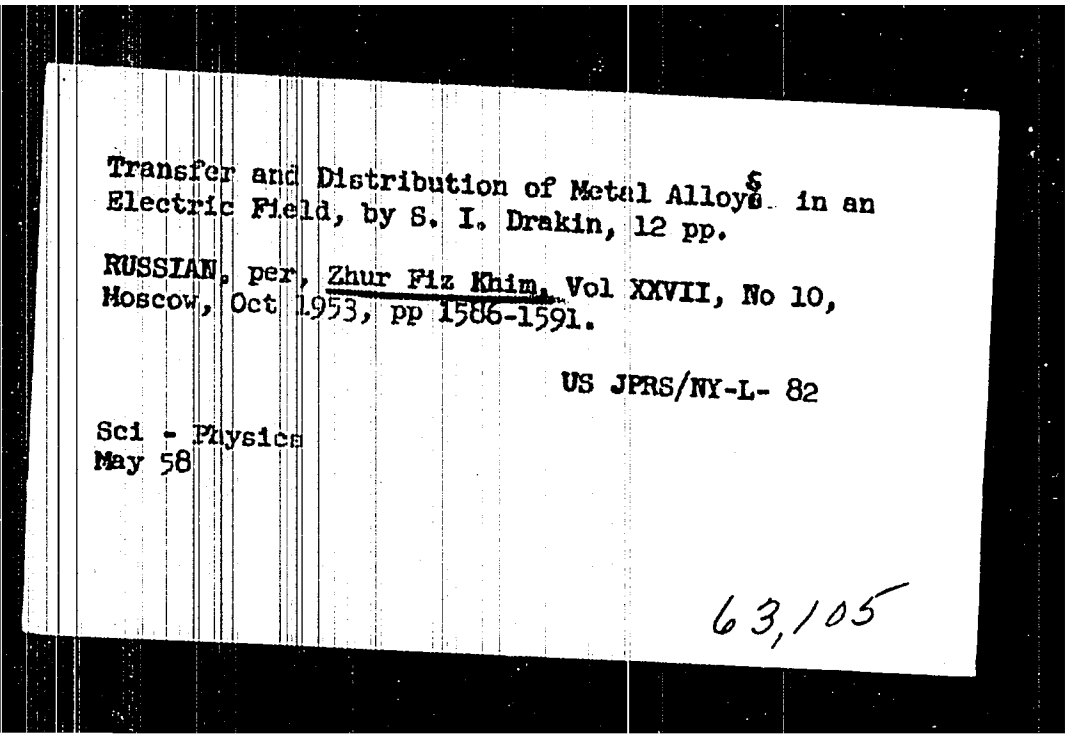
RUSSIAN, no per, Zhur Fiz Khim, SSSR, Vol XXVII, No 10, 1953, pp 1572-1579.

*Navy Tr /NRL

Scientific - Physics

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0



Transfer and Distribution of Metal Alloys in an Electric Field, by S. I. Drakin, 12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, No 10, Moscow, Oct 1953, pp 1586-1591.

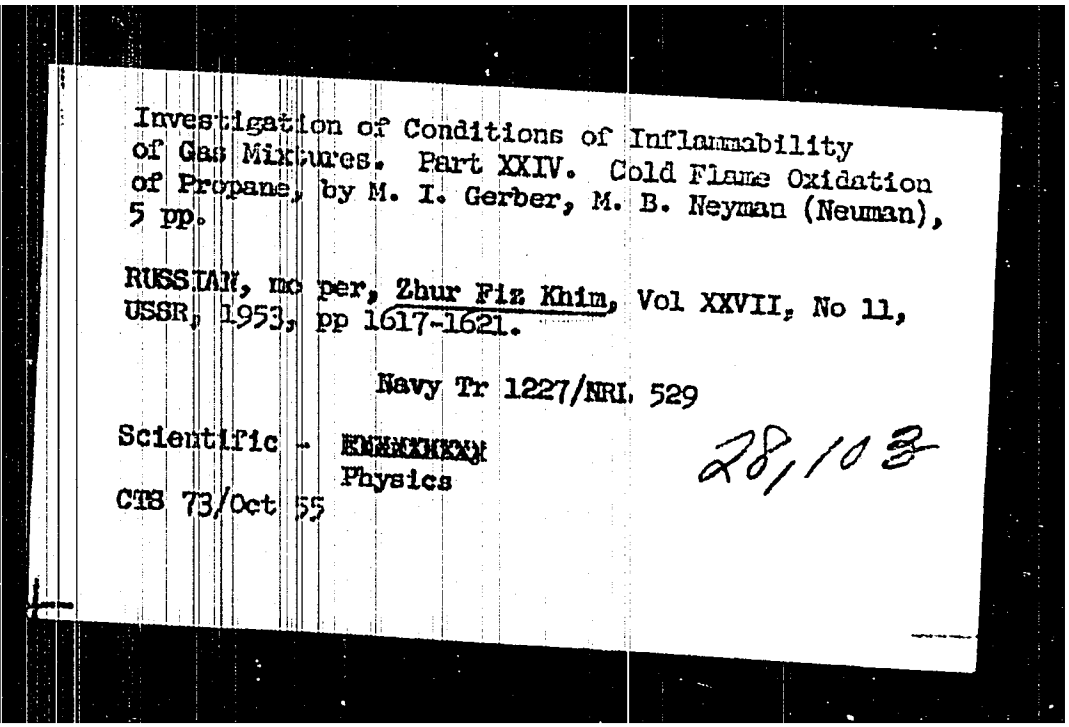
US JPRS/NY-L- 82

Sci - Physics
May 58

63,105

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0



Investigation of Conditions of Inflammability of Gas Mixtures. Part XXIV. Cold Flame Oxidation of Propane, by M. I. Gerber, M. B. Neyman (Neuman), 5 pp.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XXVII, No 11, USSR, 1953, pp 1617-1621.

Navy Tr 1227/NRL 529

28,103

Scientific - Physics

CTS 73/Oct 55

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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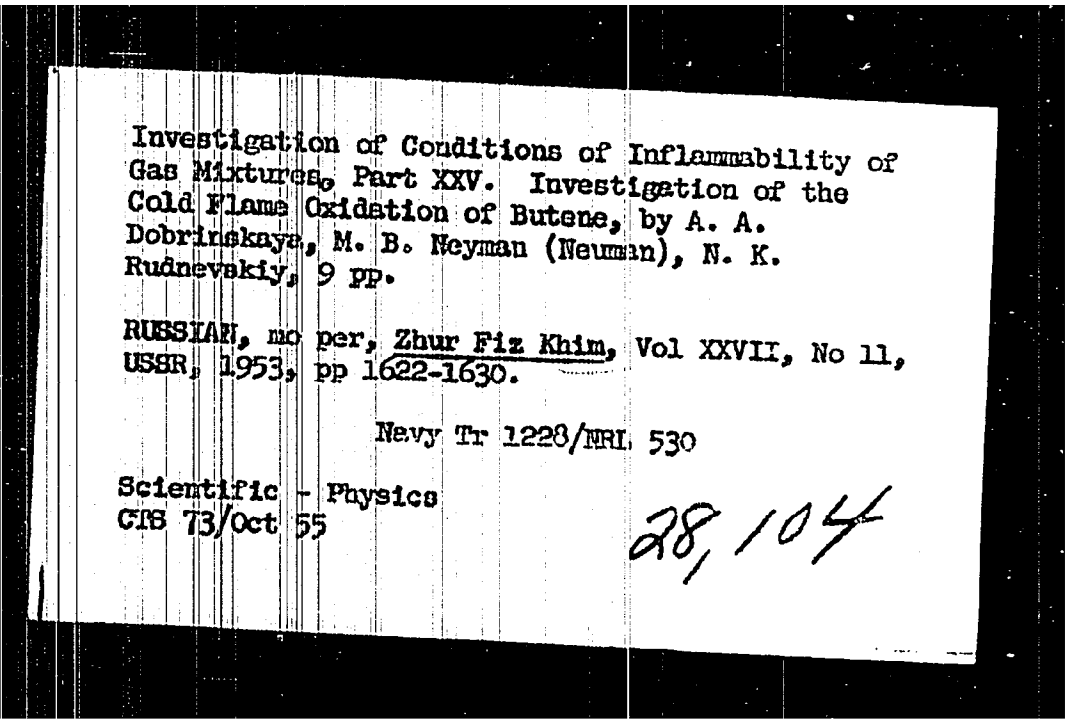


Investigation of Conditions of Inflammability of Gas Mixtures, Part XXV. Investigation of the Cold Flame Oxidation of Butene, by A. A. Dobrinskaya, M. B. Neyman (Neuman), N. K. Rudnevskiy, 9 pp.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XXVII, No 11, USSR, 1953, pp 1622-1630.

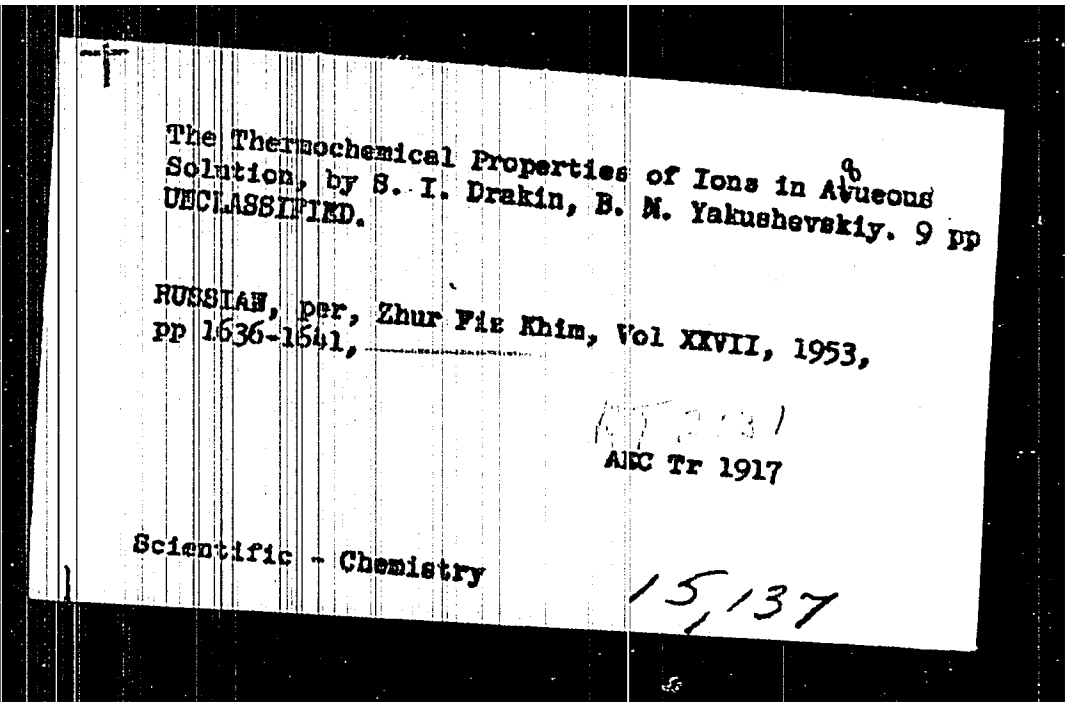
Navy Tr 1228/NRL 530

Scientific - Physics
CIS 73/Oct 55

28,104

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0



The Thermochemical Properties of Ions in Aqueous Solution, by S. I. Drakin, B. M. Yakushevskiy. 9 pp UNCLASSIFIED.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, 1953, pp 1636-1641,

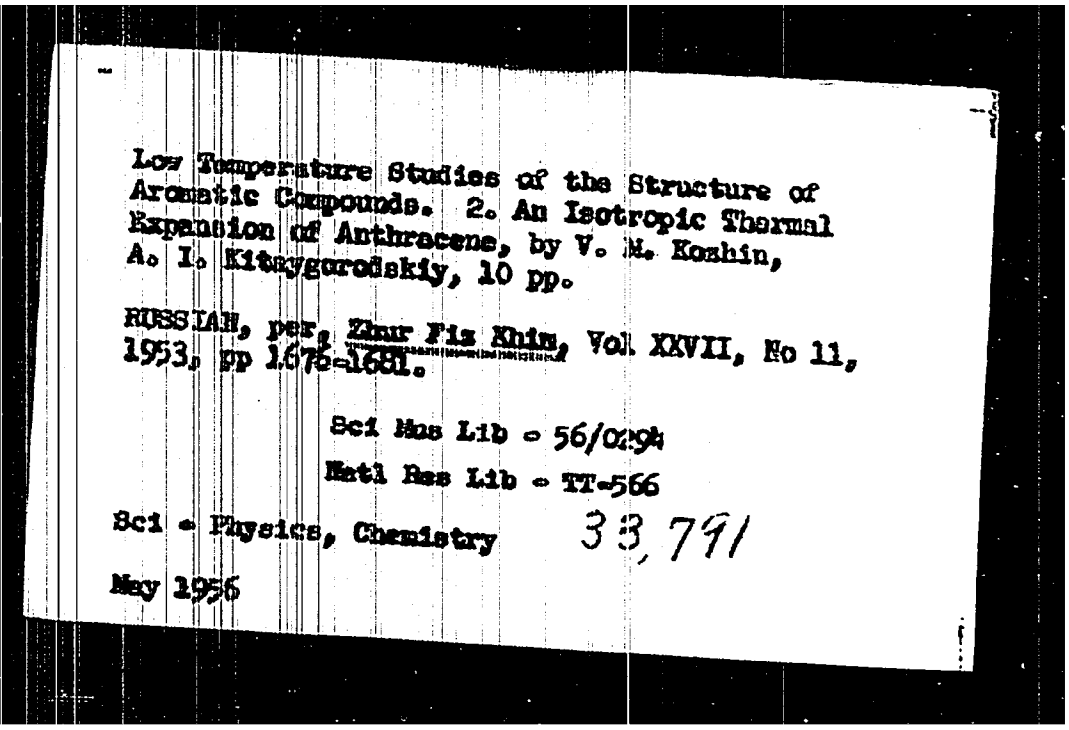
AEC Tr 1917

Scientific - Chemistry

15,137

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0



Low Temperature Studies of the Structure of Aromatic Compounds. 2. An Isotropic Thermal Expansion of Anthracene, by V. M. Koshin, A. I. Kitaygorodskiy, 10 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol. XXVII, No 11, 1953, pp 1678-1681.

Sci Mus Lib - 56/0:94

Natl Res Lib - TT-566

Sci - Physics, Chemistry 33,791

May 1956

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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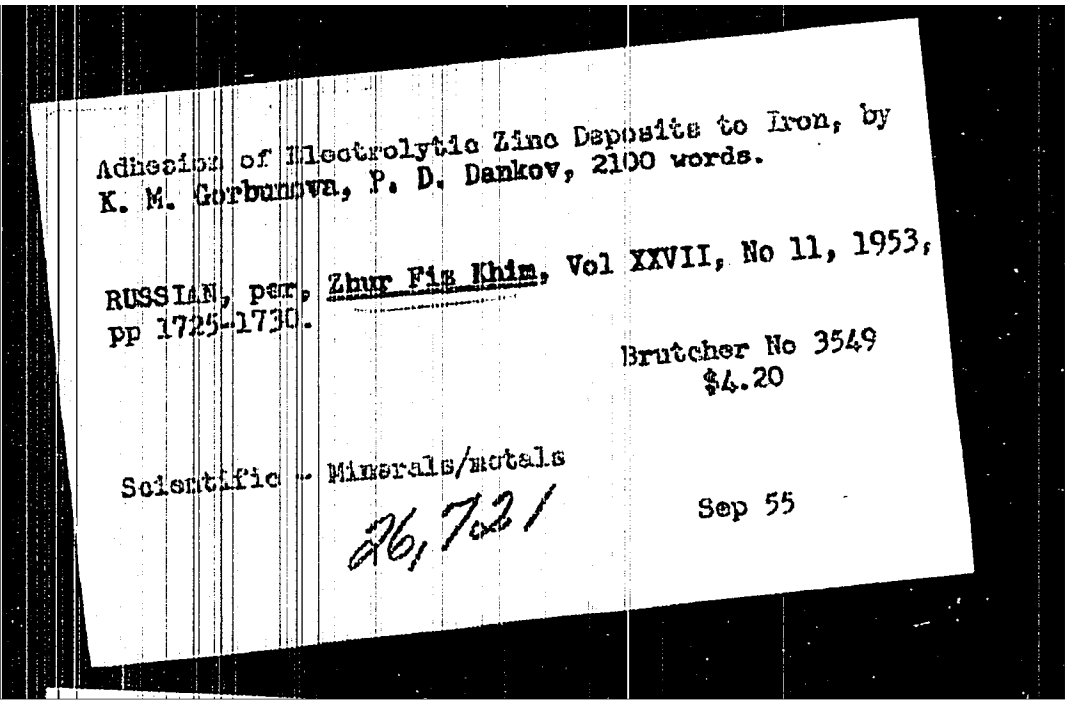


Adhesion of Electrolytic Zinc Deposits to Iron, by K. M. Gorbunova, P. D. Dankov, 2100 words.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, No 11, 1953, pp 1725-1730.

Brutcher No 3549
$4.20

Scientific -- Minerals/metals

26,721

Sep 55

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Stepukhovich, A. D. and Tschaikin, A. M.
KINETICS AND MECHANISM OF HYDROCARBON DECOMPOSITION. III. KINETICS AND MECHANISM OF BUTANE AT LOW PRESSURES IN PRESENCE OF ISOBUTYLENE AND PROPYLENE AS RETARDANTS. [1962] 10p. (figs. tables formulae refs. omitted).
Order from CTS or SLA $1.10 62-20340

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1953, v. 27, no. 12, p. 1737-1747.

DESCRIPTORS: *Hydrocarbons, Decomposition, *Butanes, *Propenes, Reaction kinetics, Chemical reactions, Inhibition.

See also 62-14856.

(Chemistry--Organic, TT, v. 9, no. 12)

62-20340

I. Stepukhovich, A. D.
II. Tschaikin, A. M.
III. Title: Kinetics...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Reducing Action of Hydrogen and Carbon Monoxide upon Iron Oxides at Low Temperatures, by A. N. Kunnetsov,

RUSSIAN, Zhur Fiz Khim, Vol XXVII, No 12, 1953, pp 1808-1815.

Brutcher Tr No 3300

13,729

Scientific - Chemistry

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Separation of Hydrocarbon Mixtures by the Chromathermographic Method, by N. M. Turkel'taub.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVII, 1953, pp 1827-1836.

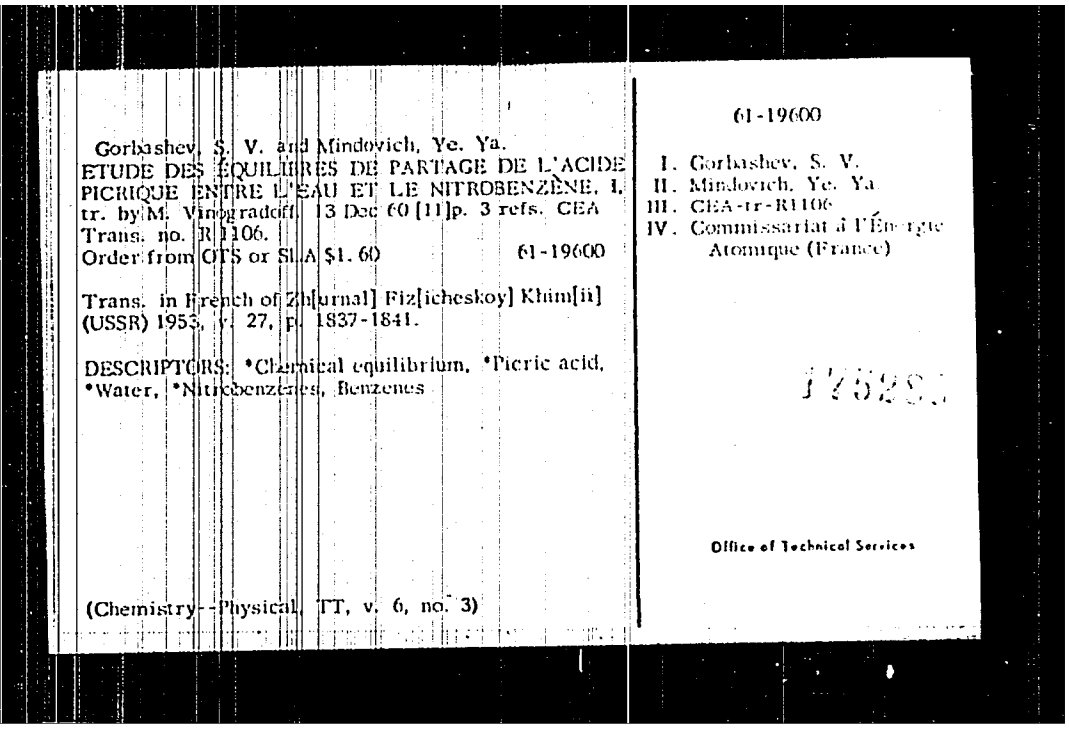
Assoc Tech Sv RJ-223
$18.00

Scientific - Chemistry
CTS 73/Oct 1955

27,490

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0



Gorbashev, S. V. and Mindovich, Ye. Ya.
ETUDE DES ÉQUILIBRES DE PARTAGE DE L'ACIDE PICRIQUE ENTRE L'EAU ET LE NITROBENZÈNE. I. tr. by M. Vinogradoff. 13 Dec 60 [11]p. 3 refs. CEA Trans. no. R 1106.
Order from OTS or SLA $1.60 61-19600

Trans. in French of Zh[urnal] Fiz[icheskoy] Khim[ii] (USSR) 1953, v. 27, p. 1837-1841.

DESCRIPTORS: *Chemical equilibrium, *Picric acid, *Water, *Nitrobenzenes, Benzenes

(Chemistry--Physical, TT, v. 6, no. 3)

61-19600

I. Gorbashev, S. V.
II. Mindovich, Ye. Ya
III. CEA-tr-R1106
IV. Commissariat à l'Énergie Atomique (France)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Gorbashev, S. V. and Mindovich, E. Ya.
ETUDE DES EQUILIBRES DE PARTAGE DE L'ACIDE PICRIQUE ENTRE L'EAU ET LE NITROBENZENE, II. [Study of the Equilibria of Distribution of Picric Acid Between Water and Nitrobenzene] tr. by M. Vinogradoff. 27 Oct 59 [9]p. 3 refs. no. R 751 (text in French).
Order from OTS or SLA $1.10 61-23754

Trans. in French of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1953, v. 27, no. 12, p. 1842-1847.

DESCRIPTORS: *Chemical equilibrium, *Picric acid, *Water, *Nitrobenzenes, Benzenes.

See also 61-19600

(Chemistry--Physical, TT, v. 6, no. 7)

61-23754

I. Gorbashev, S. V.
II. Mindovich, E. Ya.
III. CEA-tr-R751
IV. Commissariat à l'Energie Atomique (France)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Delimarskii, Yu. K., Markov, B. F., and Berenblyum, I. S.
DETERMINATION OF COEFFICIENTS OF DIFFUSION OF IONS IN MOLTEN SALTS. [1953] 15p] (figs omitted) 8refs
Order from CTS, SLA, or ETC $1.50 TT-61-14412

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1953, vl. 27, no. 12, p. 1848-1855. (Abstract available)

DESCRIPTORS: *Electrochemistry, *Fused materials, Salts, Ions, *Silver, Diffusion, Potassium compounds, Sodium compounds, Lithium compounds, Chlorides, Nitrates,

A method for determining the coefficients of diffusion of ions in molten salts, based on measuring the decrease in current with time on a plane-end electrode, is proposed. Up to a certain time after the instant of con-
(Chemistry--Physical, TT, v. 11, no. 11) (over)

TT-61-14412

I. Delimarskii, Yu. K.
II. Markov, B. F.
III. Berenblyum, I. S.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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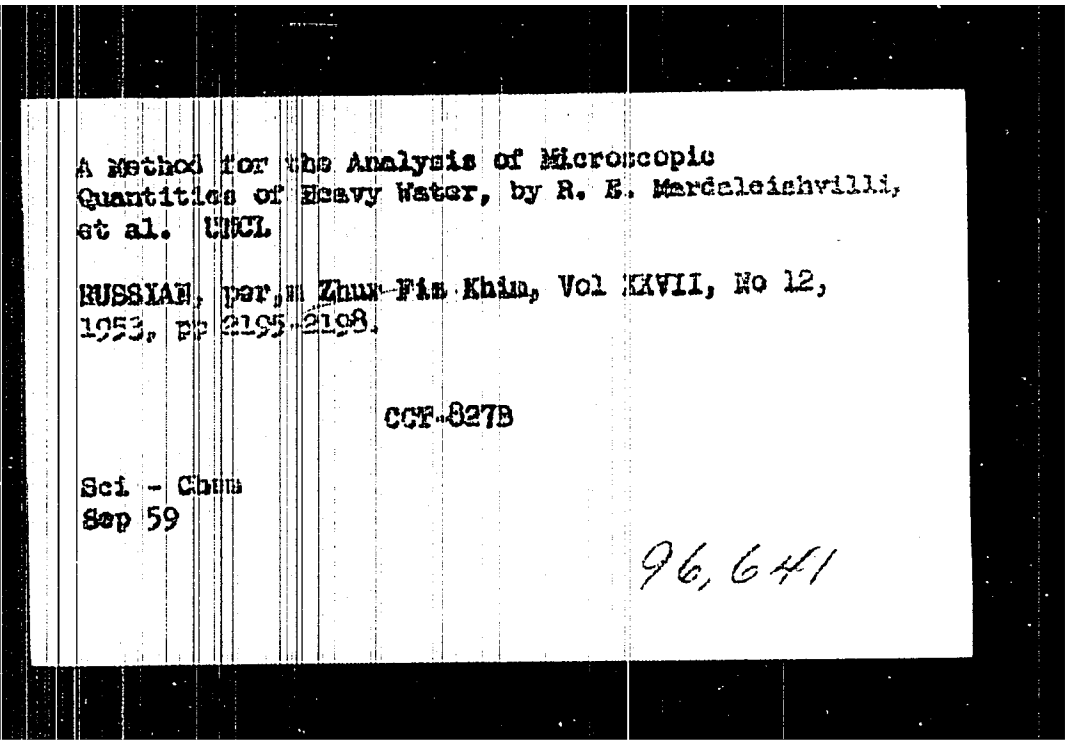

A Method for the Analysis of Microscopic Quantities of Heavy Water, by R. E. Mardaleishvilli, et al. UNCL.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, No 12, 1953, pp 2195-2198.

CCF-827B

Sci - Chem
Sep 59

96,641

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Electrical Properties of Films of Condensed Aromatic Hydrocarbons on Aqueous Solutions of Inorganic Salts, by M. A. Gerovich, O. G. Ol'man.
RUSSIAN, per, Zhur Fiz Khim, Vol 28, No 1, 1954, pp 19-25.
*AEC

Sci - Chemistry
May 67

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Yatsimirskiĭ, K. B. and Shutov, A. A.
THE THERMOCHEMISTRY OF SOME IODIDE COMPLEXES. 10p. 6 refs. MTWL: 749.
Order from CTS or ETC $1.55 61-17269

Trans. of Zhurnal Fizicheskoĭ Khimii (USSR) 1954, v. 28, no. 1, p. 30-35.

DESCRIPTORS: *Iodides, Complex compounds, *Thermochemistry, Chemical equilibrium.

61-17269

I. Yatsimirskiĭ, K. B.
II. Shutov, A. A.
III. MTWL-749
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

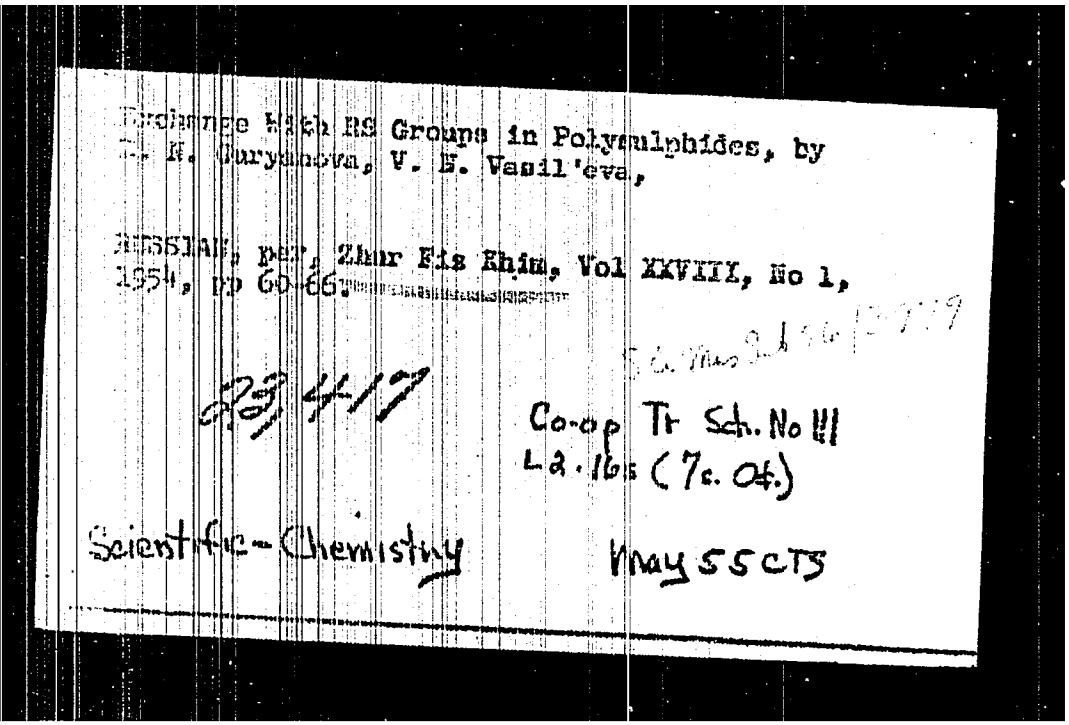
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Kinetics of the Dark Reaction of a Hydrochloride Mixture and Critical Conditions for Its Combustion, by A. I. Rozlovskiy.
RUSSIAN, per, Zhurnal Fizicheskoy Khimiy, 1954, Vol 28, No 1, pp 51-59.
NLL RT3 2376 (On Loan or Purchase)
CFSTI FT 65-60347

Aug 65 288,867

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0



Preparation of SH Groups in Polysulphides, by
[illegible] Buryukhova, V. E. Vasil'eva,

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 1,
1954, pp 60-66

QD 471

Co-op Tr Sch. No 111
L2.16 (7c. 04.)

Scientific-Chemistry

May 55 CTS

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Certain Exchange Reactions of Sulphur, by E. N. Gur'yanova, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 1, 1954, pp 67-72.

Co-Op Trans Sch Tr 106
Sci Mus Lib Tr 56/3877

Sci - Chem
May 57 CTS/dex

47, 504

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

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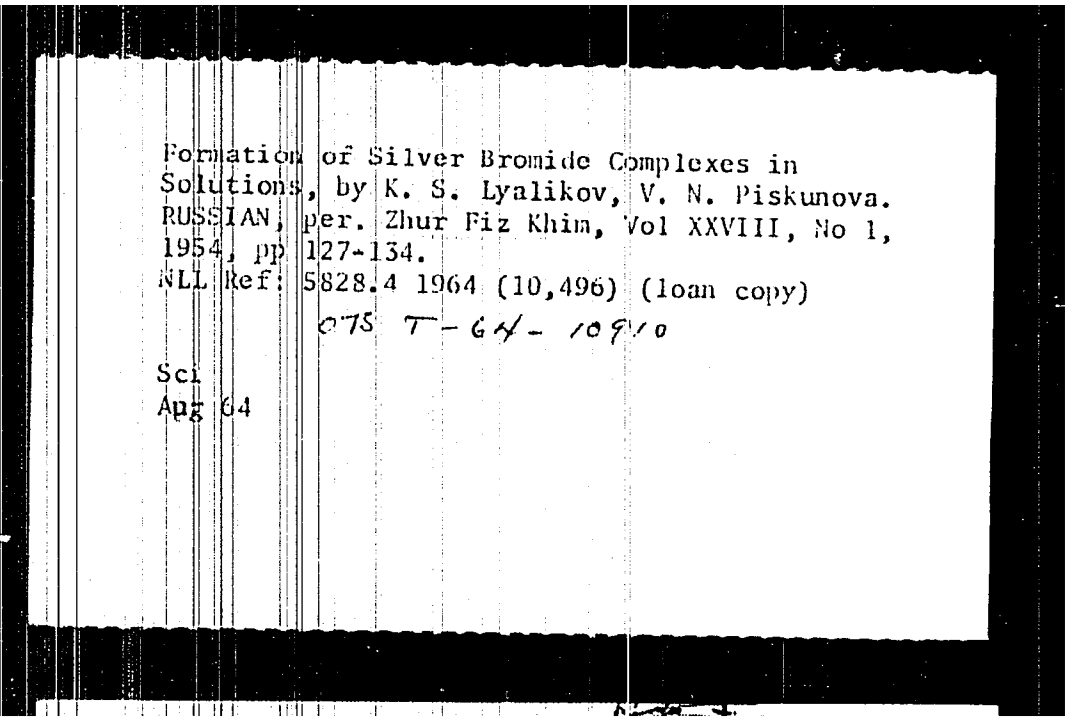

Formation of Silver Bromide Complexes in Solutions, by K. S. Lyalikov, V. N. Piskunova. RUSSIAN, per. Zhur Fiz Khim, Vol XXVIII, No 1, 1954, pp 127-134.
NLL Ref: 5828.4 1964 (10,496) (loan copy)
075 T-64-10910

Sci
Apg 64

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Calculation of the Heats of Formation of Inorganic Compounds, by V. V. Fomin, 8 pp

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, pp 186[illegible] 190[illegible], 195[illegible].

SLA R-2849

Sci

Jul 59

92,400

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Mechanism of the Oxidation of Hydrocarbons in Gaseous Phase, IV. High and Low-Temperature Oxidation of Propane, by N. Ya. Chernyak, etal
25 pp.

RUSSIAN, per Zhurnal Fizicheskoi Khimii, Vol XXVIII, No 2, 1954, pp 240-252.

Sci Trans Center RT-3314

Scientific - Chemistry 32,719

Apr 56

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Temperature Effect at the Cathode During Electro-Precipitation of Powderous Cadmium, by D. N. Gritsan, and M. Bulgakova, 12 pp. RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, 1954, pp 258-264.
CIA/FDD X-5668

A.M.

Sci - Elec
Aug 65
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284,353

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290040-0

Protsenko, P. I. and Popovskaya, N. P.
ELECTRICAL CONDUCTIVITY OF THE BINARY SYSTEMS: CADMIUM NITRATE-POTASSIUM NITRATE CADMIUM NITRATE-RUBIDIUM NITRATE AND CADMIUM NITRATE-SILVER NITRATE IN FUSIONS [Elektroprovodnost' binarnykh Sistem: Nitrat Kadmiya-Nitrat Kaliya, Nitrat Kadmiya-Nitrat Rubidiya i Nitrat Kadmiya-Nitrat Serebra v Rasplavakh]. [1963] [15p] (figs omitted) 8refs
Order from OTS, SLA, or ETC $1.60 TT-64-14400

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1954, v. 28 [no. 2] p. 299-304.
Another trans. is available from SLA as RT-2571, 17p.

DESCRIPTORS: *Fused materials, Salts, *Cadmium compounds, *Potassium compounds, *Rubidium compounds, *Silver compounds, *Nitrates, Electrical conductivity.

(Chemistry--Physical, TT, v. 11, no. 10) (over)

TT-64-14400

I. Protsenko, P. I.
II. Popovskaya, N. P.
III. RT-2571

Office of Technical Services

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Thermodynamic Studies at Low Temperatures. I. Measurement of Temperatures Between 12 and 300°K, by P. G. Strelkov, A. G. Borovik-Romanov, M. P. Orlova, 15 pp.

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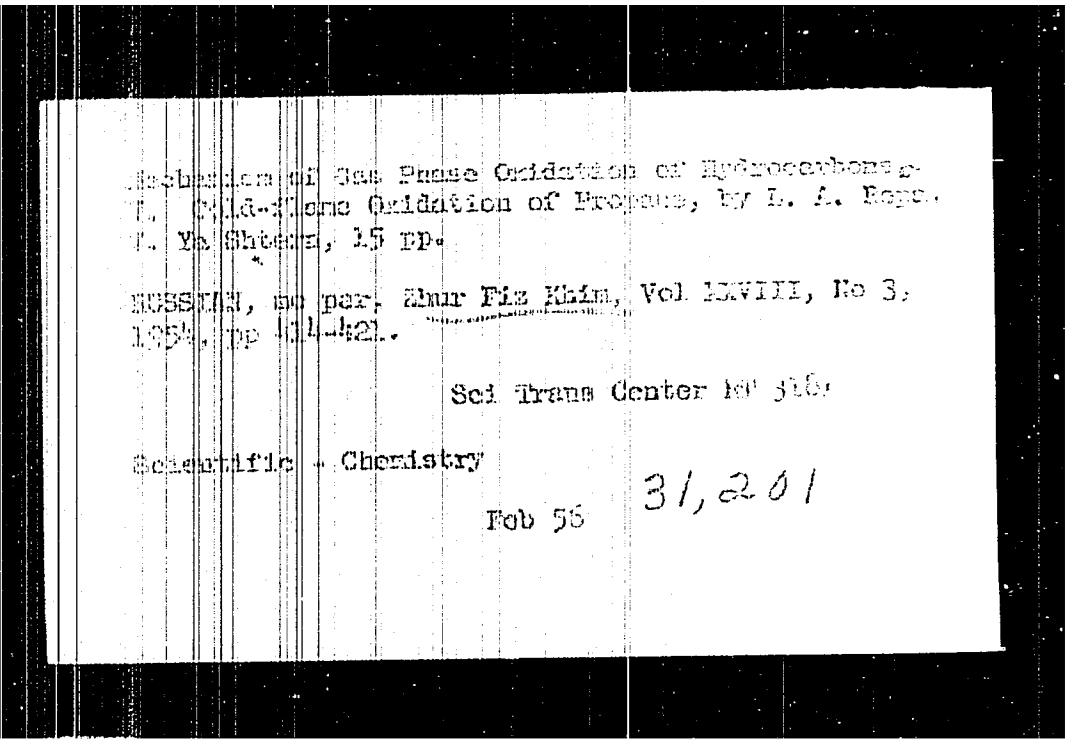

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THE EFFECT OF TEMPERATURE ON THE LOWER CONCENTRATION LIMIT OF FLAME PROPAGATION, BY M. A. PESHKIN.

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On the Relationship Between the Corrosion Rate of Iron and pH of (KCl) Salt Solution, by L. K. Lepin, A. Yu. Vayvade.

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Thermodynamic Studies at Low Temperatures, II. Measurements of the Heat Capacity of Solid Bodies and Liquids Between 12 and 300°K, by I. G. Strelkov, E. S. Itskevitch, V. N. Kostrukov, G. G. Mirskaya, B. N. Samoilov, 21 pp.

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Kalish, T. V. and Frumkin, A. N.
THE EFFECT OF THE ADSORPTION OF ANIONS ON THE REDUCTION OF THE S_2O_8 ION AT A DROPPING CATHODE (Vliyaniye Adsorptsii Anionov na Vosstanovleniye Ionn S_2O_8 na Kapel'nom Katode).
Apr 61 [24]p. 31 refs. RTS 1747.
Order from OTS or S.A. $2.60 61-19802

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1954, v. 28, no. 3, p. 475-[illegible].

DESCRIPTORS: Ions, Reduction, *Electrolysis, *Peroxydisulfates, Adsorption.

The electroreduction of $S_2O_8^{--}$ ions at a mercury electrode is retarded by adsorbing anions. The rate of this reaction at a positively charged surface depending on the nature of the indifferent electrolyte, follows the order Na_2SO_4 > KCl > KBr > KI. In passing from 0.01 N $Na_2S_2O_4$ to 0.01 N KI, for this reaction, provided the respective current density is 0.8 of the limiting re-
(Chemistry - Physical), TT, v. 6, no. 4) (over)

61-19802

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Characteristic Frequencies of Alkenes, by P. F. Gruzdev, 7 pp.

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Low Temperature Thermodynamic Investigations.
3. Heat Capacity of Potassium Chloride Between 12 and 300°K. Entropy of Potassium Chloride at 298.16°; by P. G. Strelkov, E. S. Itzkevich, V. N. Kostryukov, G. G. Mirskaya, 11 pp.

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On the Theory of Nickel-Arsenide Structures, by by V. A. Zhdanov, M. S. Tskhay, 4 pp.

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NRC C-3121

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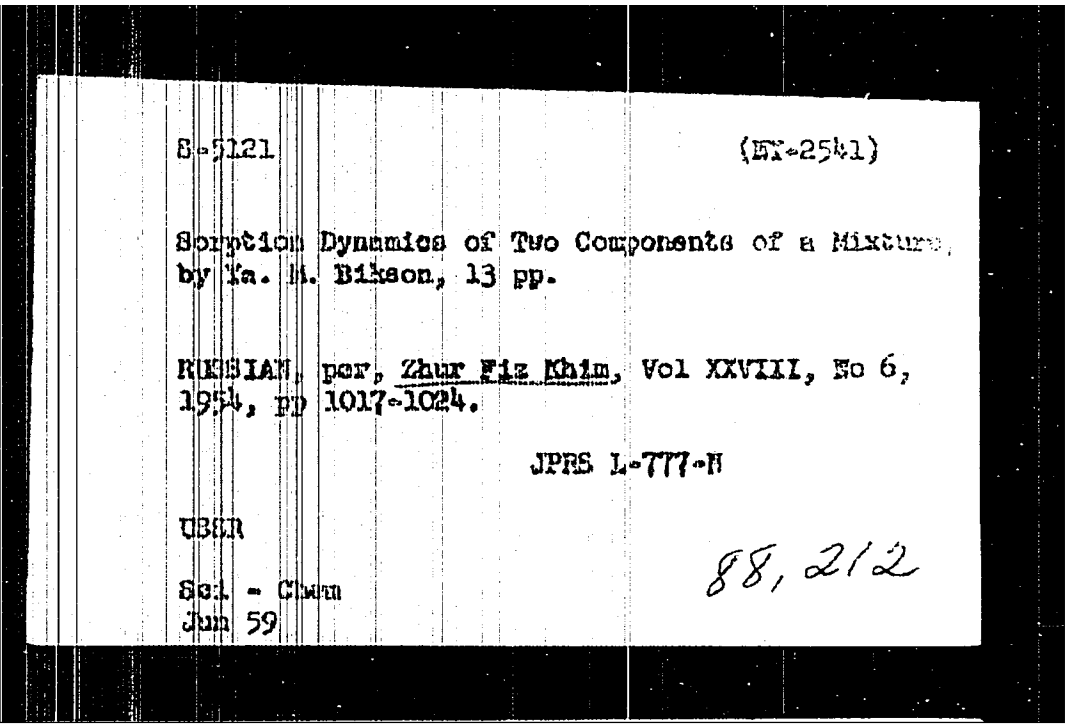

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The Problem of the Solubility of Boron and Carbon in Boron Carbide $B_{12}C_3$ (B_4C), by G. S. Zhdanov, G. A. Meerson, N. N. Zhuraveyev, C. V. Samsonov.

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SLA A-1117
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Sci - Chem

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Kinetics and Mechanism of Hydrocarbon Decomposition. III. Kinetics and Mechanism of the Thermal Decomposition of Divinyl at Low Pressures, by A. D. Stepukhovich, G. I. Kats,

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Neiman, M.B.
MÉTHODE CINÉTIQUE D'APPLICATION DES ATOMES MARQUÉES POUR L'ETUDE DU MECANISME DES PROCESSUS CHIMIQUES ET BIOCHIMIQUES COMPLEXES. I. THÉORIE DE LA MÉTHODE (Kineticheskii Metod Primeneniya Mechenykh Atomov dlya Issledovaniya Mekhanizma Slozhnykh Chimicheskikh i Biochimicheskikh Protsessov. I. Teoriya Metoda)(A Kinetic Tracer Method for Studying the Mechanisms of Complex Chemical and Biochemical Processes. I. Theory of the Method) 24p. (Foreign text included) 11refs. CNRS-VIII bis 560.
Order from CTS, ETC or CNRS 50.90 TT-62-28283

Trans. in French of Zhurnal Fizicheskoi, Khimii (USSR) 1954, v. 28, no. 7, p. 1235-1242.
Another trans. is available in English from LC or SLA mi$2.40, phS3.30 as TT-61-10529 [1960] 14p.

DESCRIPTORS: Chemical reactions, Kinetic theory, Radioactive isotopes, *Labeled substances, *Biochemistry, Injection, Animals, Tracer studies, (Biological Sciences--Biochemistry, TT, v. 11, no. 6)

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I. Neiman, M.B.
II. CNRS-VIII bis 560
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Office of Technical Services
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S-84/60 (NY-3543)

The Effect of Molecular Structure on the Velocity of the Ionic and Atomic Reactions of Isotope Exchange. I. The Effect of Lengthening the Carbon Chain of the Alkyl Radical on the Rate of Isotope Exchange of an Alkyl Halide With Halide Ions, by M. B. Neyman, Yu. M. Shapovalov, V. B. Miller, 28 pp

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